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Anti-RAR beta Antibody

Catalog # AP51466

Product Information

Application	WB, IHC, IP
Primary Accession	P10826
Reactivity	Human, Mouse, Rat, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	50489

Additional Information

Gene ID	5915
Other Names	HAP; NR1B2; Retinoic acid receptor beta; RAR-beta; HBV-activated protein; Nuclear receptor subfamily 1 group B member 2; RAR-epsilon
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human RAR beta. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 IP~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

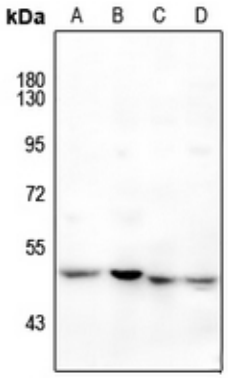
Name	RARB
Synonyms	HAP, NR1B2
Function	Receptor for retinoic acid. Retinoic acid receptors bind as heterodimers to their target response elements in response to their ligands, all-trans or 9-cis retinoic acid, and regulate gene expression in various biological processes. The RXR/RAR heterodimers bind to the retinoic acid response elements (RARE) composed of tandem 5'-AGGTCA-3' sites known as DR1-DR5. In the absence or presence of hormone ligand, acts mainly as an activator of gene expression due to weak binding to corepressors (PubMed:12554770). The RXRA/RARB heterodimer can act as a repressor on the DR1 element and as an activator on the DR5 element (PubMed:29021580). In concert with RARG, required for skeletal growth, matrix homeostasis and growth plate function (By similarity).
Cellular Location	Nucleus. Cytoplasm [Isoform Beta-2]: Nucleus.

Tissue Location	Expressed in aortic endothelial cells (at protein level).

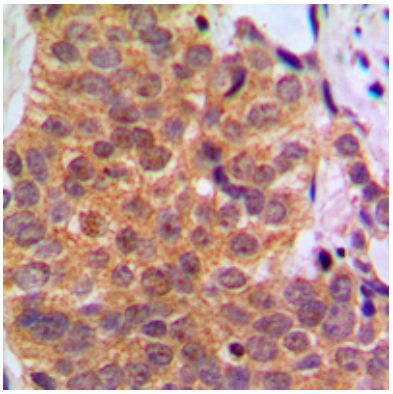
References

Benbrook D.,et al.Nature 333:669-672(1988).
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Sommer K.M.,et al.Proc. Natl. Acad. Sci. U.S.A. 96:8651-8656(1999).
Shen S.,et al.DNA Seq. 2:111-119(1991).
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Images



Western blot analysis of RAR beta expression in SKOVCAR3 (A), MCF7 (B), C6 (C), CT26 (D) whole cell lysates. (Predicted band size: 50 kD; Observed band size: 50 kD)



Immunohistochemical analysis of RAR beta staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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